

DOCUMENT MANAGEMENT SYSTEM

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Doc# NSCS-M-P-7094-07
Title: Percent Solids Test
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Auth:
Desc: Percent Solids Test
Loc: Midwest - Utilities-Midwest - Plant Maintenance-Midwest-Gary Works

Purpose: The percent solids in the sludge is performed for reference only. It is used as a guide to filter press performance.

STEPS

Process Overview

PROCEDURES

The percent solids test is used as a “reference only” test to gauge press performance.

For example, a very low value would indicate either a pump problem (longer fill time may be needed) or a press performance problem and that maintenance is needed. A high percent solids number would indicate that the membrane air time could be decreased. An extremely high percent solids number would indicate that the fill time and membrane air needs to be decreased.

Test Procedure

1. Turn off the infrared top loading balance.
2. Set controls for desired time and heat setting [REDACTED]
3. Make sure setting is for % solids.
4. Place aluminum weighing dish on balance and tare it (set to zero).
5. Add slivers of sludge cake until the weight is between [REDACTED]
6. Close top of balance and start drying.
7. When the timer goes off, read percent solids from the digital scale on the balance.
8. Remove weighing dish and turn off balance.
9. If less than [REDACTED] check filter cloths as they may need cleaning.

Reporting

Report all percent solids readings Form 7094-02.

Corrective Actions

Notify Manager if chemicals or supplies are needed or if there is an equipment problem. Record comments on Form 7094-02.